

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE ☒ WATER SANDS LOCATION INSPECTION SUB. REPORT/abd.

981022 APD EXT APPROV TO 10-27-99: 991118 L&amp;L, eff 11-9-99

DATE FILED OCTOBER 14, 1997

LAND: FEE &amp; PATENTED STATE LEASE NO.

PUBLIC LEASE NO.

INDIAN #

DRILLING APPROVED: OCTOBER 27, 1997 APD EXT APPROV 10-22-98 14-20-H62-4737

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: 11-9-99 RAB

FIELD: UNDESIGNATED

UNIT:

COUNTY: DUCHESNE

WELL NO. UTE TRIBAL 34-04-D3

API NO. 43-013-31960

LOCATION 752 FNL FT. FROM (N) (S) LINE, 762 FWL

FT. FROM (E) (W) LINE. NW NW

1/4 - 1/4 SEC. 34

| TWP. | RGE. | SEC. | OPERATOR             | TWP. | RGE. | SEC. | OPERATOR |
|------|------|------|----------------------|------|------|------|----------|
| 4S   | 3W   | 34   | PETROGLYPH OPERATING |      |      |      |          |

**Petroglyph Operating Co., Inc.**

**P.O. Box 1839**

**Hutchinson, KS 67504-1839**

October 3, 1997

Utah Division of Oil, Gas, & Mining  
1594 West North Temple  
Box 145801  
Salt Lake City, UT 84114-5801

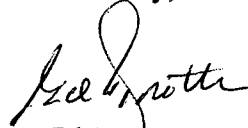
RE: APPLICATION FOR PERMIT TO DRILL  
UTE TRIBAL #34-04-D3  
NW/NW, SEC. 34, T4S, R3W  
DUCHESNE COUNTY, UTAH  
LEASE NO. 14-20-H62-4737  
SURFACE OWNER: Orvin J. and  
Delphia Moon

Enclosed please find a copy of the Application for Permit to Drill and associated attachments for the referenced well.

Please address further communication regarding this matter (including approval) to:

Ed Trotter  
P.O. Box 1910  
Vernal, UT 84078  
Phone # (801) 789-4120  
Fax # (801) 789-1420

Sincerely,

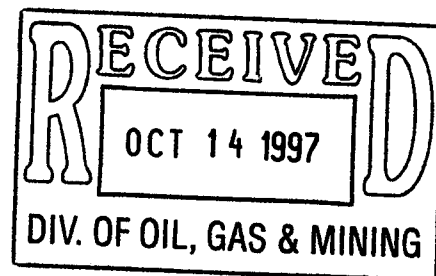


Ed Trotter  
Agent

Petroglyph Operating Co., Inc.

Attachments

/EHT/dmt



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒

DEEPEN ☐

b. TYPE OF WELL

OIL  
WELL ☒

GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐

MULTIPLE  
ZONE ☐

2. NAME OF OPERATOR

PETROGLYPH OPERATING CO., INC.

3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UTAH 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface 752' FNL & 762' FWL NW/NW  
At proposed prod. zone 232'

CONFIDENTIAL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14.8 MILES SOUTHWEST OF MYTON, UTAH

10. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any) 752'±

16. NO. OF ACRES IN LEASE

616

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

19. PROPOSED DEPTH

6238.5

20. ROTARY OR CABLE TOOLS

ROTARY

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5748.5' GRADED GROUND

22. APPROX. DATE WORK WILL START\*

OCTOBER 1997

23.

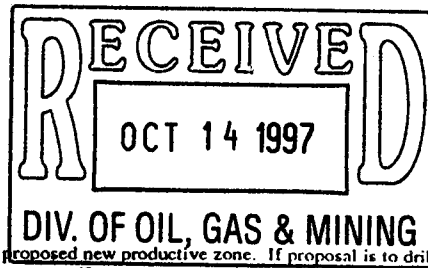
PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT   |
|--------------|----------------------|-----------------|---------------|--|
| 12 1/4"      | 8 5/8"               | 24.0#           | 250'          | 135 sx class "G" + 2% CaCl <sub>2</sub>  |
| 7 7/8"       | 5 1/2"               | 15.5#           | 6238.5'       | + 1/4 #/sx celloflake.   |
|              |                      |                 |               | 50/50 POZMIX + 2% GEL + 10%<br>SALT TO 400' ABOVE ALL ZONES<br>OF INTEREST (+10% EXCESS).<br>LIGHT CEMENT (11 PPG) +<br>LCM TO 200' ABOVE OIL SHALE<br>OR FRESH WATER INTERVALS<br>(+5% EXCESS). |

CONFIDENTIAL

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.

pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah



IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

*[Signature]*

TITLE AGENT FOR PETROGLYPH

DATE 10-3-97

(This space for Federal or State office use)

PERMIT NO.

43-013-31960

APPROVAL DATE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

*[Signature]*

TITLE

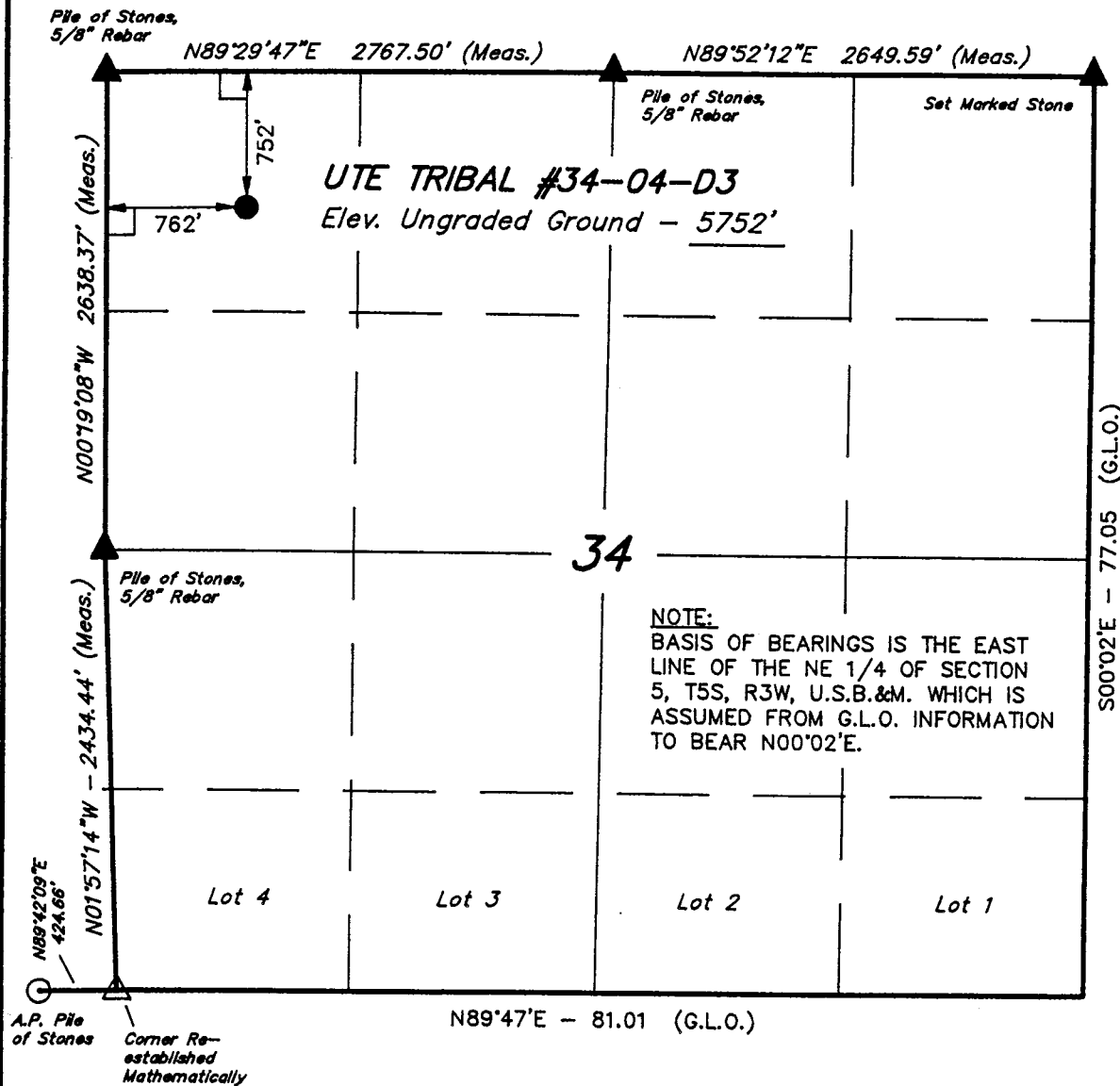
Associate Director

DATE

10/27/97

\*See Instructions On Reverse Side

**T4S, R3W, U.S.B.&M.**

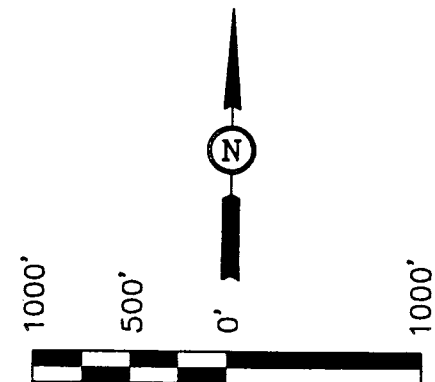


**PETROGLYPH OPERATING CO., INC.**

Well Location, UTE TRIBAL #34-04-D3, located as shown in NW 1/4 NW 1/4 of Section 34, T4S, R3W, U.S.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 34, T4S, R3W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5838 FEET.



SCALE

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
REGISTRATION NO. 181319  
STATE OF UTAH  
**ROBERT L. KAY**

Revised: 9-11-97 C.B.T.

**UNTAE ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(801) 789-1017

|                             |  |                        |
|-----------------------------|--|------------------------|
| SCALE<br>1" = 1000'         | DATE SURVEYED:<br>7-7-97               | DATE DRAWN:<br>7-23-97 |
| PARTY<br>L.D.T. B.H. C.B.T. | REFERENCES<br>G.L.O. PLAT              |                        |
| WEATHER<br>HOT              | FILE<br>PETROGLYPH OPERATING CO., INC. |                        |

## EIGHT POINT PLAN

UTE TRIBAL #34-04-D3  
NW/NW, SEC. 34, T4S R3W  
DUCHESNE COUNTY, UTAH

### 1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

| FORMATIONS                | DEPTH  | SUBSEA |
|---------------------------|--------|--------|
| Mahogany Shale            | 3028.5 | 2730   |
| "X" Marker                | 4732.5 | 1026   |
| Douglas Creek             | 4878.5 | 880    |
| "B" Limestone             | 5291.5 | 467    |
| B/Castle Peak Limestone   | 5853.5 | -95    |
| Basal Carbonate Limestone | 6218.5 | -460   |
| Total Depth               | 6238.5 | -570   |

Anticipated BHP                      2000 psi

### 2. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS FORMATIONS:

| <u>Substance</u>    | <u>Formation</u> | <u>Depth</u> | <u>Subsea</u> |
|---------------------|------------------|--------------|---------------|
| Oil/Gas             | Douglas Creek    | 4878.5       | 880           |
| Oil/Gas             | B/Castle Peak    | 5853.5       | -95           |
| Other mineral zones | N/A              |              |               |

### 3. PRESSURE CONTROL EQUIPMENT : BOP Schematic Diagram attached.

### 4. CASING PROGRAM :

| <u>HOLE SIZE INTERVAL</u> |              |         |       |        |      | <u>MINIMUM SAFETY FACTOR</u> |              |                |
|---------------------------|--------------|---------|-------|--------|------|------------------------------|--------------|----------------|
|                           |              |         |       |        |      | <u>COLLAPSE</u>              | <u>BURST</u> | <u>TENSILE</u> |
| 12 1/4                    | 0' - 250'    | 250'    | 8 5/8 | 24.0 # | J-55 | 1370 PSI                     | 2950 PSI     | 263,000#       |
| 7 7/8                     | 0' - 6328.5' | 6328.5' | 5 1/2 | 15.5 # | M-50 | 3650 PSI                     | 4550 PSI     | 186,000#       |

All casing will be new or inspected.

EIGHT POINT PLAN

UTE TRIBAL #34-04-D3  
NW/NW, SEC. 34, T4S R3W  
DUCHESNE COUNTY, UTAH

5. MUD PROGRAM

INTERVAL

0' - 250'  
250' - 4000'  
4000' - TD  
TD

MUD TYPE

Air  
Air/Mist & Aerated Water  
Air/3% KCL water or KCL substitute  
Gel/polyacrylamide polymer w/5-10% LCM

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

6. VARIANCE REQUESTS:

- A. Petroglyph Operating Co., Inc. requests a variance to regulations requiring a straight run blooie line.
- B. Petroglyph Operating Co., Inc. requests a variance to regulations requiring an automatic ignitor or continuous pilot light on the blooie line.

7. EVALUATION PROGRAM:

|   |                              |
|---|------------------------------|
| Logs: Mud Logging                           | T.D. to base of surface csg. |
| Compensated Density-Compensated Neutron Log | T.D. to base of surface csg. |
| Dual Laterolog - Micro-SFL                  | T.D. to base of surface csg. |
| Numar (Magnetic Resonance Imaging Log)      | @ Geologists discretion      |

Cores: None Programmed

DST: None Programmed

Completion: To be submitted at a later date.

8. ABNORMAL CONDITIONS:

None anticipated.

EIGHT POINT PLAN

UTE TRIBAL #34-04-D3  
NW/NW, SEC. 34, T4S R3W  
DUCHESNE COUNTY, UTAH

9. STANDARD REQUIRED EQUIPMENT:

- A. Choke Manifold
- B. Kelly Cock
- C. Stabbing Valve
- D. Visual Mud Monitoring

10. HAZARDOUS CHEMICALS:

No chemicals subject to reporting under SARA title III in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

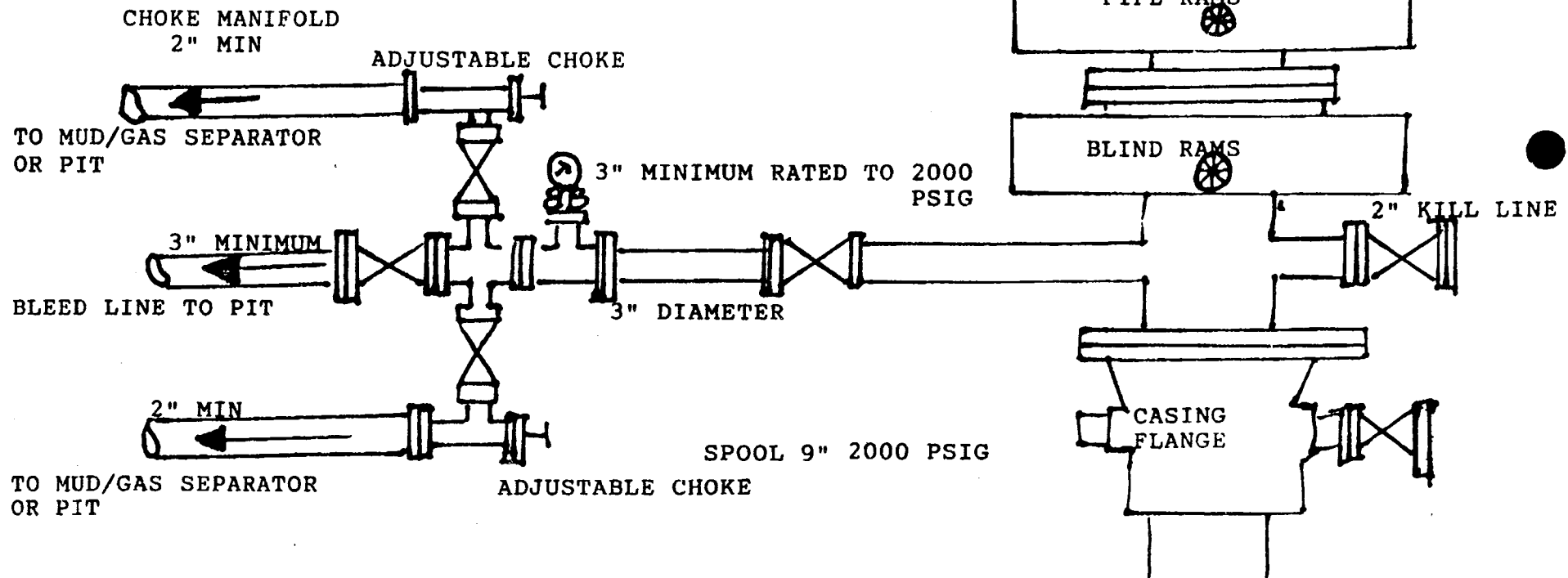
(Attachment: BOP Schematic Diagram)

## 2000 PSIG DIAGRAM

BOTH RAMS ARE 2000 PSIG RATED.  
CASING FLANGE IS 9" 2000 PSIG RATED.  
BOPE 9" 2000 PSIG

### TESTING PROCEDURE:

1. BOPE 's will be tested with a professional tester to conform to Onshore Order #2 with retest every 14 days.
2. Blind & Pipe rams will be tested to rated working pressure, 2000 psig
3. Casing will be tested to 0.22 psi/ft. or 1500 psig. Not to exceed 70% of burst strength, whichever is greater.
4. All lines subject to well pressure will be pressure tested to the same pressure as blind & pipe rams.
5. All BOPE specifications and configurations will meet Onshore Order #2 requirements for 2000 psig BOPE specifications.





CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company  
Well Name & Number: UTE TRIBAL #34-04-D3  
Lease Number: 14-20-H62-4737  
Location: 752' FNL & 762' FWL, NW/NW, Sec. 34, T4S, R3W  
U.S.B.&M., Duchesne County, Utah  
Surface Ownership: Orvin J. and Delphia Moon

NOTIFICATION REQUIREMENTS

Location Construction - forty-eight (48) hours prior to construction of location and access roads.

Location Completion - prior to moving on the drilling rig.

Spud Notice - at least twenty-four (24) hours prior to spudding the well.

Casing String and Cementing - twenty-four (24) hours prior to running casing and cementing all casing strings.

BOP and related Equipment Tests - twenty-four (24) hours prior to running casing and tests.

First Production Notice - within five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

For more specific details on notification requirements, please check the Conditions of Approval for Notice To Drill and Surface Use Program.

## THIRTEEN POINT SURFACE USE PROGRAM

### 1. EXISTING ROADS

- A. See attached Wellsite Plats showing directional reference stakes on location, and attached TOPO Map "B" showing access to location from existing roads.
- B. The proposed well site is located approximately 14.8 miles southwest of Myton, Utah - See attached TOPO Map "A".
- C. Refer to attached Topographic Map "A" showing labeled access route to location.
- D. Existing roads will be maintained and repaired as necessary. No off lease Right-of-Way will be required.

### 2. PLANNED ACCESS ROAD

- A. The access road will be approximately 0.1 miles in length.  
See attached TOPO Map "B"
- B. The access road has a 30 foot ROW w/18 foot running surface.
- C. Maximum grade on access road will be 8%
- D. No turnouts will be required.
- E. Road drainage crossings shall be of the typical dry creek drainage crossing type.
- F. No culverts, bridges or major cuts & fills will be required.
- G. The access road will be dirt surface.
- H. No gates, cattleguards or fences will be required or encountered.

New or reconstructed roads will be centerlined - flagged at time of location staking.

The road shall be upgraded to meet the standards of the anticipated traffic flow and all-weather road requirements. Upgrading shall include ditching, drainage, graveling, crowning, and capping the roadbed as necessary to provide a well-constructed safe road.

Prior to upgrading, the road shall be cleared of any snow cover and allowed to dry completely. Traveling off the 30 foot Right-of- Way will not be allowed.

Road drainage crossings shall be of the typical dry creek drainage crossing type. Crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossings nor shall the drainages be blocked by the roadbed. Erosion of drainage ditches by run off water shall be prevented by diverting water off at frequent intervals by means of cutouts. Upgrading shall not be allowed during muddy conditions. Should mud holes develop, they shall be filled in and detours around them avoided.

As operator, Petroglyph Operating Company shall be responsible for all maintenance on cattleguards, or gates associated with this oil and/or gas operation.

3. LOCATION OF EXISTING WELLS WITHIN A ONE MILE RADIUS OF PROPOSED WELL LOCATION

- A. Water wells - None
  - B. Abandoned wells - None
  - C. Temporarily abandoned wells - None.
  - D. Disposal wells - None.
  - E. Drilling wells - None.
  - F. Producing wells - 2\*
  - G. Shut in wells - None
  - H. Injection wells - None
- (\*See attached TOPO map "C" for location)

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

A. ON WELL PAD

- 1. Tank batteries - None
- 2. Production facilities - None
- 3. Oil gathering lines - None
- 4. Gas gathering lines- None
- 5. Injection lines - None

6. Disposal lines - None

7. Surface pits - None

**B. OFF WELL PAD**

1. A 4 1/2" OD steel above ground production pipeline will be laid approximately 665' from proposed location to a point in the NW/NE of Section 34, T4S, R3W, where it will tie into Petroglyph Operating Co., Inc.'s existing pipeline. Proposed pipeline crosses privately owned surface, thus a Right-of-Way grant will be required.
2. Proposed pipeline will be a 4 1/2" OD steel, welded line laid on the surface.
3. Protective measures and devices for livestock and wildlife will be taken and/or installed where required.  
If storage facilities/tank batteries are constructed on this lease, the facility/battery or the well pad shall be surrounded by a containment dike of sufficient capacity to contain, at a minimum, the entire contents of the largest tank within the facility/battery.  
The production facilities will be placed on the North side of the location.

**5. LOCATION & TYPE OF WATER SUPPLY**

- A. Water supply will be from Target Trucking's Roosevelt Brine Storage and/or Target's water source in SE 1/4, Sec. 1, T 4S, R 5W Duchesne County, Utah (State water right #43-10152). All water will come from a non-depletable source.
- B. Water will be hauled by Target Trucking.
- C. No water well will be drilled on lease.

**6. SOURCE OF CONSTRUCTION MATERIAL**

- A. All construction material for this location and access road will be of native borrow and soil accumulated during the construction of location.
- B. All construction material will come from Private Land.
- C. No mineral materials will be required.

## 7. METHODS OF HANDLING WASTE DISPOSAL

### A. METHODS AND LOCATION

1. Cuttings will be confined in the reserve pit.
2. A portable toilet will be provided for human waste during the drilling and completion of the well. Disposal will be at the Roosevelt sewage disposal plant.
3. Burning will not be allowed. Trash and other waste material will be contained in a wire mesh cage and disposed of at an approved waste disposal facility.
4. Produced waste water will be confined to a lined pit or storage tank for a period not to exceed 90 days after initial production. During the 90 day period, an application for approval of a permanent disposal method and location, together with the required water analysis, will be submitted for the AO's approval.
5. All chemicals will be disposed of at an authorized disposal site. Drip pans and absorbent pads will be used on drilling rig to avoid leakage of oil to pit.

- B. Water from drilling fluids and recovered during testing operations will be disposed of by either evaporating in reserve pit or be removed and disposed of at an authorized disposal site. Introduction of well bore hydrocarbons to reserve pit will be avoided by flaring them off in flare pit at time of recovery.

Burning of trash will not be allowed. All trash must be contained in a trash cage and hauled away to an approved disposal site at the completion of the drilling activities.

#### On Privately owned surface :

The reserve pit will be constructed so as not to leak, break, or allow discharge.

After first production, produced waste water will be confined to a lined pit or storage tank for a period not to exceed ninety (90) days. During the 90 day period, in accordance with Onshore Order No.7, an application for approval of a permanent disposal method and location, along with required water analysis, shall be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance.

#### 8. ANCILLARY FACILITIES

- A. No airstrips or camps are planned for this well.

#### 9. WELL SITE LAYOUT

- A. Refer to attached well site plat for related topography cuts and fills & cross sections.
- B. Refer to attached well site plat for rig layout and soil material stockpile location as approved on On-site.
- C. Refer to attached well site plat for rig orientation parking areas, and access road.

The reserve pit will be located on the South side of the location.

The flare pit will be located downwind of the prevailing wind direction on the South side of the location, a minimum of 100 feet from the well head and 30 feet from the reserve pit fence.

The stockpiled topsoil will be stored on the West end.

Access to the well pad will be from the East.

N/A Diversion ditch(es) shall be constructed on the \_\_\_\_\_ side of the location (above/below) the cut slope, draining to the \_\_\_\_\_

N/A Soil compacted earthen berm(s) shall be placed on the \_\_\_\_\_ side(s) of the location between the \_\_\_\_\_

N/A The drainage(s) shall be diverted around the sides of the well pad location.

N/A The reserve pit and/or pad locations shall be constructed long and narrow for topographic reasons \_\_\_\_\_

X Corners No. 2, 6, & 8 will be rounded off to minimize excavation.

## FENCING REQUIREMENTS

All pits will be fenced according to the following minimum standards:

- A. 39 inch net wire shall be used with at least one strand of barbed wire on top of the net wire. (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- B. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16'.
- C. All wire shall be stretched by using a stretching device before it is attached to the corner posts.

The reserve pit fencing will be on the three sides during drilling operations and on the fourth side when the rig moves off the location.

Pits will be fenced and maintained until clean-up.

Each existing fence to be crossed by the access road shall be braced and tied off before cutting so as to prevent slacking of the wire. The opening shall be closed temporarily as necessary during construction to prevent the escape of livestock, and upon completion of construction the fence shall be repaired to BLM or SMA specifications.

## 10. PLANS FOR RESTORATION OF SURFACE

### A. PRODUCING LOCATION

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, equipment, debris, materials, trash, and junk not required for production.

Immediately upon well completion, any hydrocarbons on the pit shall be removed in accordance with CFR 3162.7-1.

If a plastic nylon reinforced liner is used, it shall be torn and perforated before backfilling of the reserve pit.

The reserve pit and that portion of the location not needed for

production facilities/operations will be recontoured to the approximate natural contours.

**B. DRY HOLE/ABANDONED LOCATION**

At such time as the well is plugged and abandoned, the operator will submit a subsequent report of abandonment.

**11. SURFACE OWNERSHIP**

Access road: Private

Location: Private

**12. Additional Surface Stipulations**

N/A No construction or drilling activities shall be conducted between \_\_\_\_\_ and \_\_\_\_\_ because of \_\_\_\_\_

N/A No surface occupancy will be allowed within 1,000 feet of any sage grouse strutting ground.

N/A No construction or exploration activities are permitted within 1.5 mile radius of sage grouse strutting grounds from April 1 to June 30.

N/A There shall be no surface disturbance within 600 feet of live water (includes stock tanks, springs, and guzzlers).

N/A No cottonwood trees will be removed or damaged.

N/A Pond will be constructed according to BLM specifications approximately \_\_\_\_\_ ft. \_\_\_\_\_ of the location, as flagged on onsite.

**LESSEE'S OR OPERATOR'S REPRESENTATIVE AND CERTIFICATION**

**PERMITTING**

Ed Trotter

P.O. Box 1910

Vernal UT 84078

Telephone # (801)789-4120

Fax # (801) 789-1420

**OPERATIONS**

Vince Guinn

P.O. Box 607

Roosevelt, UT 84066

(801) 722-2531

Fax # (801) 722-9145

All lease/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approval plan of operations, and any applicable Notice to



Lessees. Petroglyph Operating Company is fully responsible for the actions of their subcontractors. A copy of these conditions will be furnished to the field representative to insure compliance.

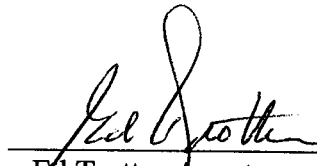
A copy of the approved APD and ROW grant, if applicable, shall be on location during construction of the location and drilling activities.

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in the Plan are to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Petroglyph Operating Company and its contractors and sub-contractors in conformity with this Plan and the terms and conditions under which it is approved.

10-3-97

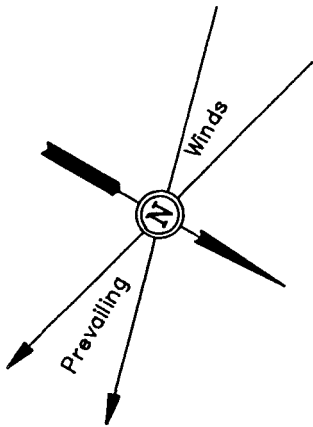
Date

  
\_\_\_\_\_  
Ed Trotter-Agent-  
Petroglyph Operating Company

# PETROGLYPH OPERATING CO., INC.

## LOCATION LAYOUT FOR

UTE TRIBAL #34-04-D3  
SECTION 34, T4S, R3W, U.S.B.&M.  
752' FNL 762' FWL



SCALE: 1" = 50'  
DATE: 7-23-97  
Drawn By: C.B.T.

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.

FLARE PIT



NOTE:  
Pit Capacity W/2' of Freeboard is ±4,600 Bbls.

Approx. Top of Cut Slope

Sta. 2+90

Sta. 1+65

Sta. 0+00

F-10.3' El. 38.2'

Approx. Toe of Fill Slope

F-1.2' El. 47.3'

Sta. 1+65

F-9.3' El. 39.2'

C-5.2' El. 53.7'

C-7.8' El. 56.3'

Topsoil Stockpile

Round Corners as Needed

PIPE RACKS

C-3.6' El. 52.1'

RIG DOG HOUSE

40'

115'

PUMP

MUD SHED

HOPPER

POWER

TOOLS

FUEL

TOILET

TRAILER  
FUEL

STORAGE TANK

MUD TANKS

RESERVE PITS (8' Deep)

Sta. 0+67

F-0.9' El. 47.6'

C-9.0' El. 49.5' (btm. pit)

Reserve Pit Backfill & Spoils Stockpile

F-2.0' El. 46.5'

F-4.8' El. 43.7'

Proposed Access Road

Elev. Ungraded Ground at Location Stake = 5752.1'

Elev. Graded Ground at Location Stake = 5748.5'

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017

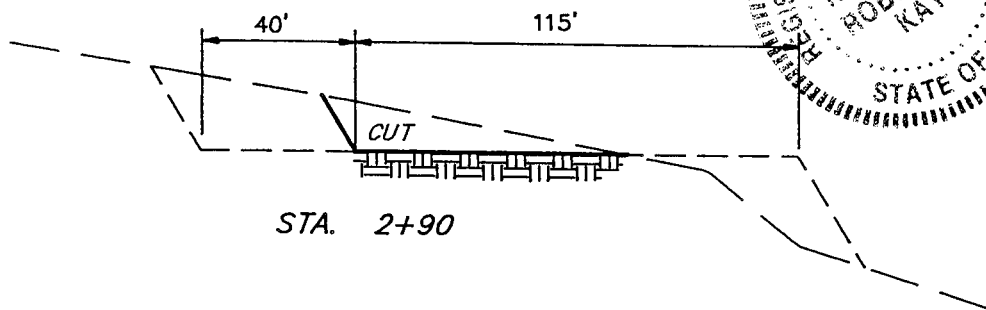
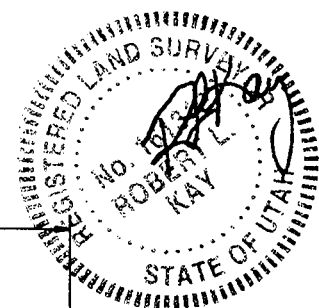
# PETROGLYPH OPERATING CO., INC.

## TYPICAL CROSS SECTIONS FOR

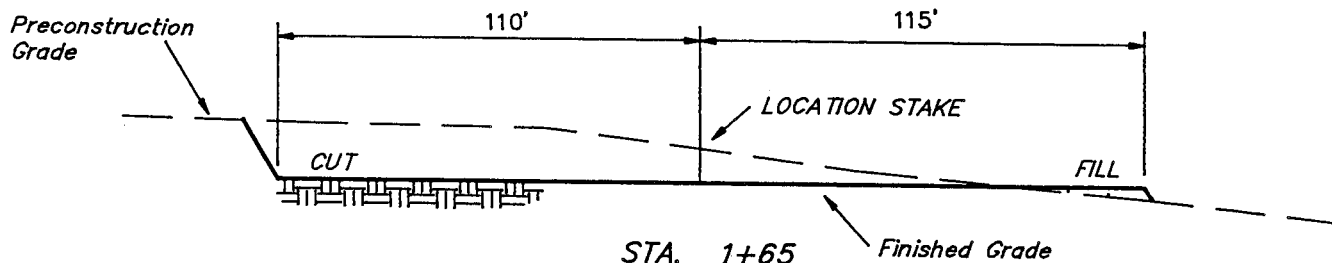
UTE TRIBAL #34-04-D3  
SECTION 34, T4S, R3W, U.S.B.&M.  
752' FNL 762' FWL

1" = 20'  
X-Section  
Scale  
1" = 50'

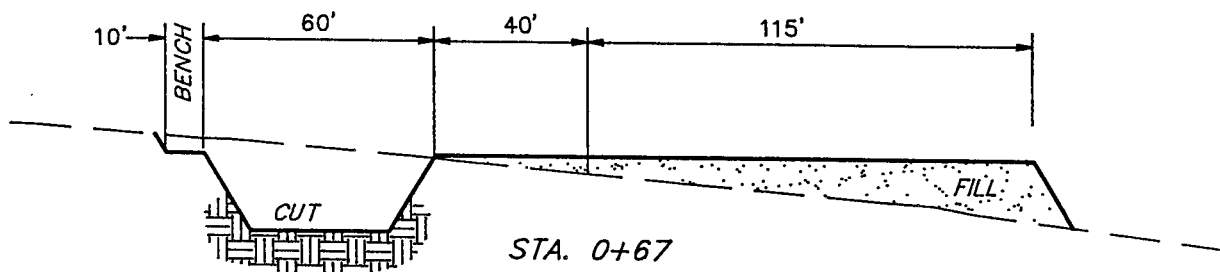
DATE: 7-23-97  
Drawn By: C.B.T.



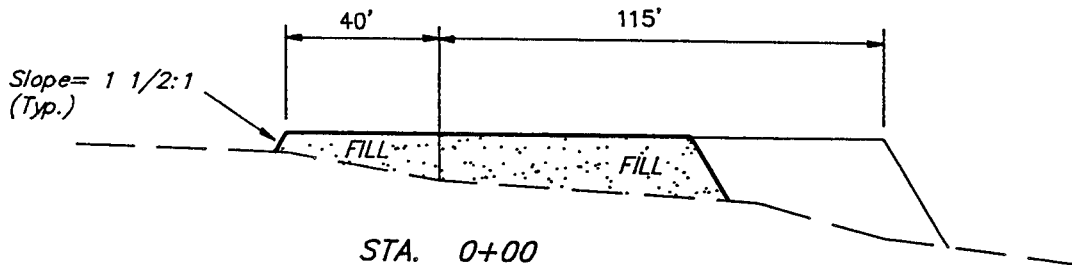
STA. 2+90



STA. 1+65



STA. 0+67



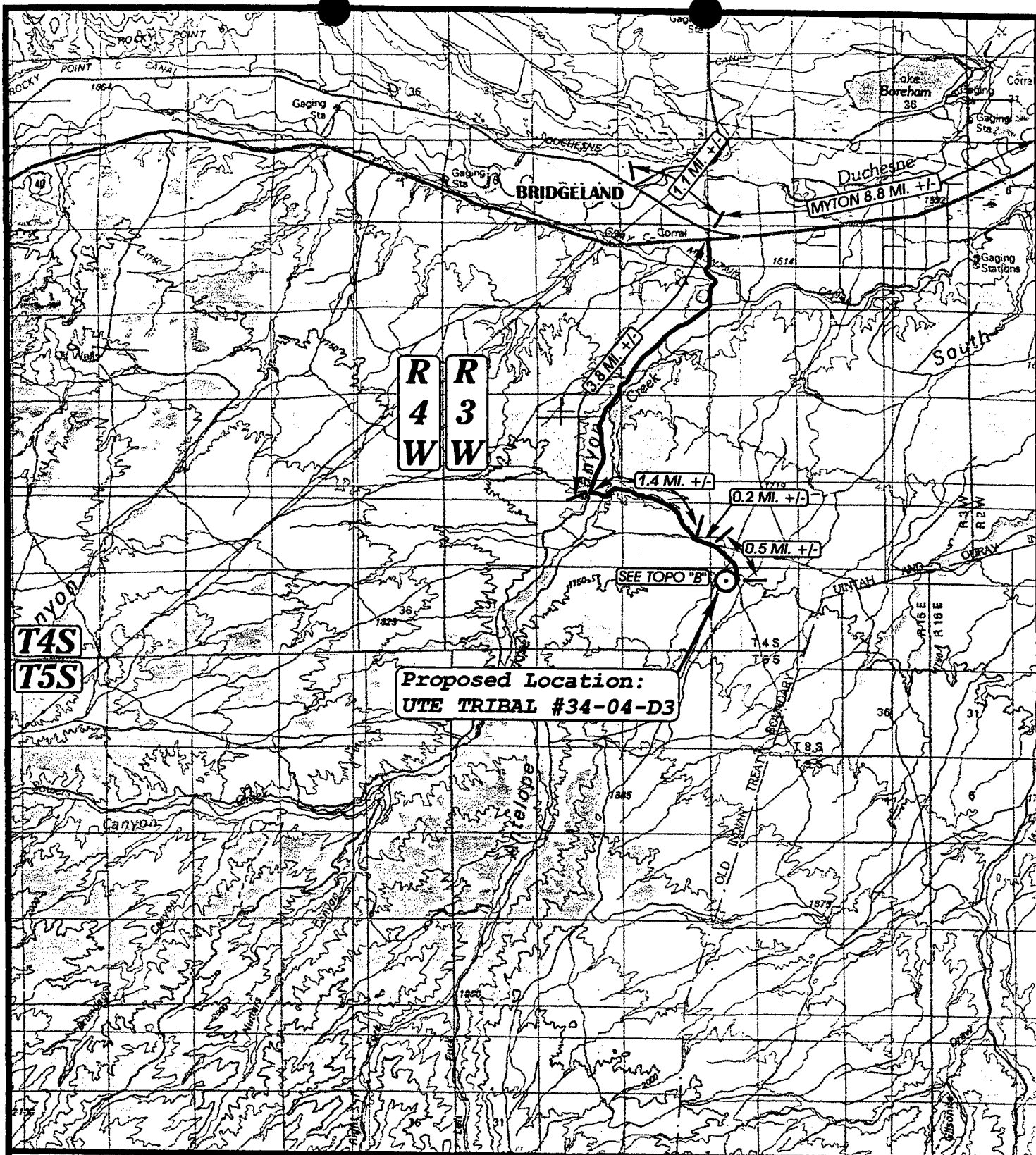
STA. 0+00

### APPROXIMATE YARDAGES

(6") Topsoil Stripping = 960 Cu. Yds.  
Remaining Location = 4,440 Cu. Yds.  
TOTAL CUT = 5,400 CU.YDS.  
FILL = 3,560 CU.YDS.

EXCESS MATERIAL AFTER  
5% COMPACTION = 1,650 Cu. Yds.  
Topsoil & Pit Backfill  
(1/2 Pit Vol.) = 1,650 Cu. Yds.  
EXCESS UNBALANCE  
(After Rehabilitation) = 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East • Vernal, Utah 84078 • (801) 789-1017



# LEGEND:

PROPOSED LOCATION

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #34-04-D3  
 SECTION 34, T4S, R3W, U.S.B.&M.  
 752' FNL 762' FWL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1813  
 Email: uels@casilink.com

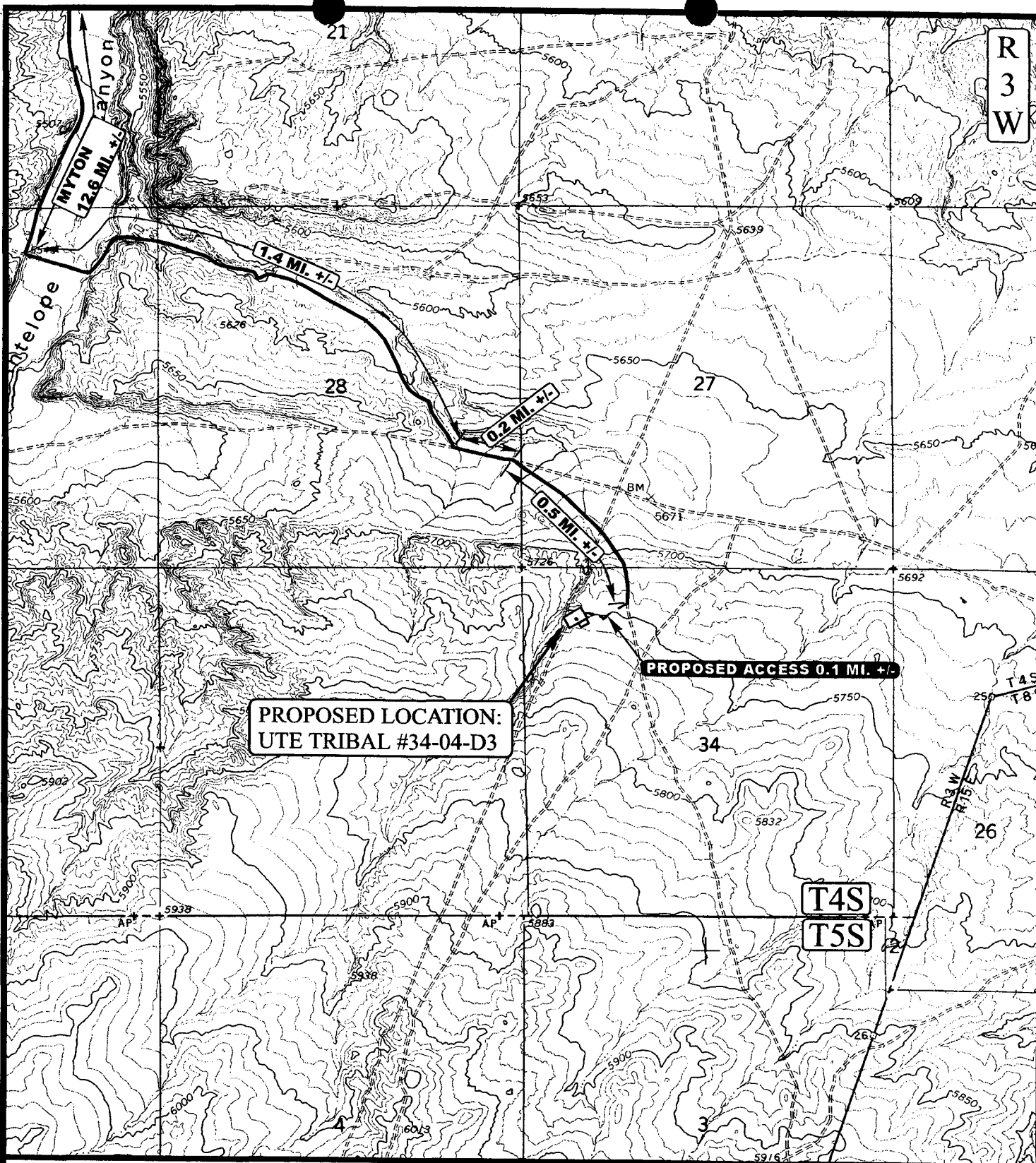


TOPOGRAPHIC  
 MAP

7 11 97  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 00-00-00

A  
 TOPO



# LEGEND:

- - - - - PROPOSED ACCESS ROAD  
 ————— EXISTING ROAD

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #34-04-D3  
 SECTION 34, T4S, R3W, U.S.B.&M.  
 752' FNL 762' FWL

**U**  
**E**  
**L**  
**S**

Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1813  
 Email: ucls@casilink.com

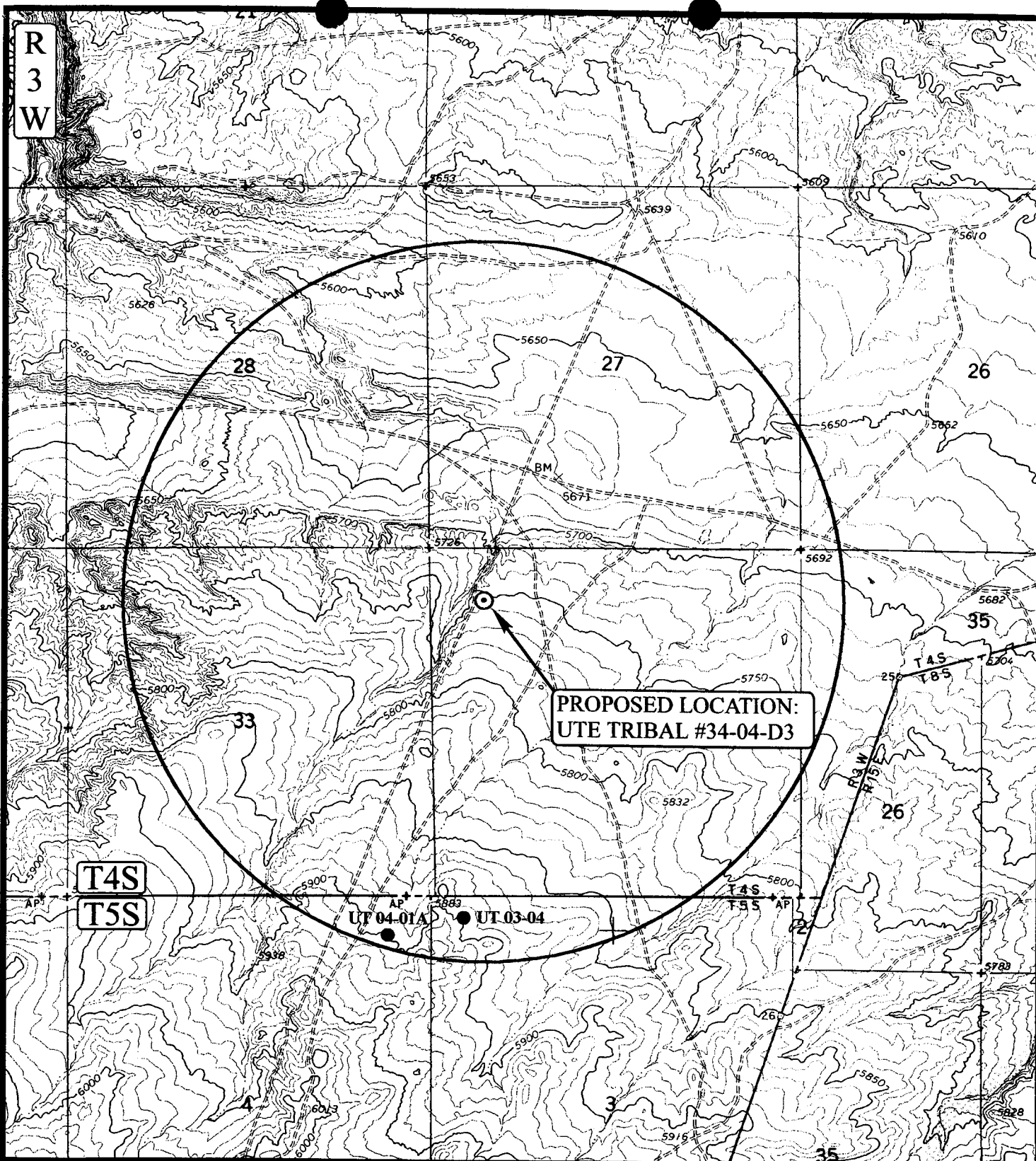


TOPOGRAPHIC  
 MAP

7 11 97  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00

**B**  
 TOPO



# LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

PETROGLYPH OPERATING CO., INC.

UTE TRIBAL #34-04-D3  
 SECTION 34, T4S, R3W, U.S.B.&M.  
 752' FNL 762' FWL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (801) 789-1017 \* FAX (801) 789-1813  
 Email: uels@casilink.com

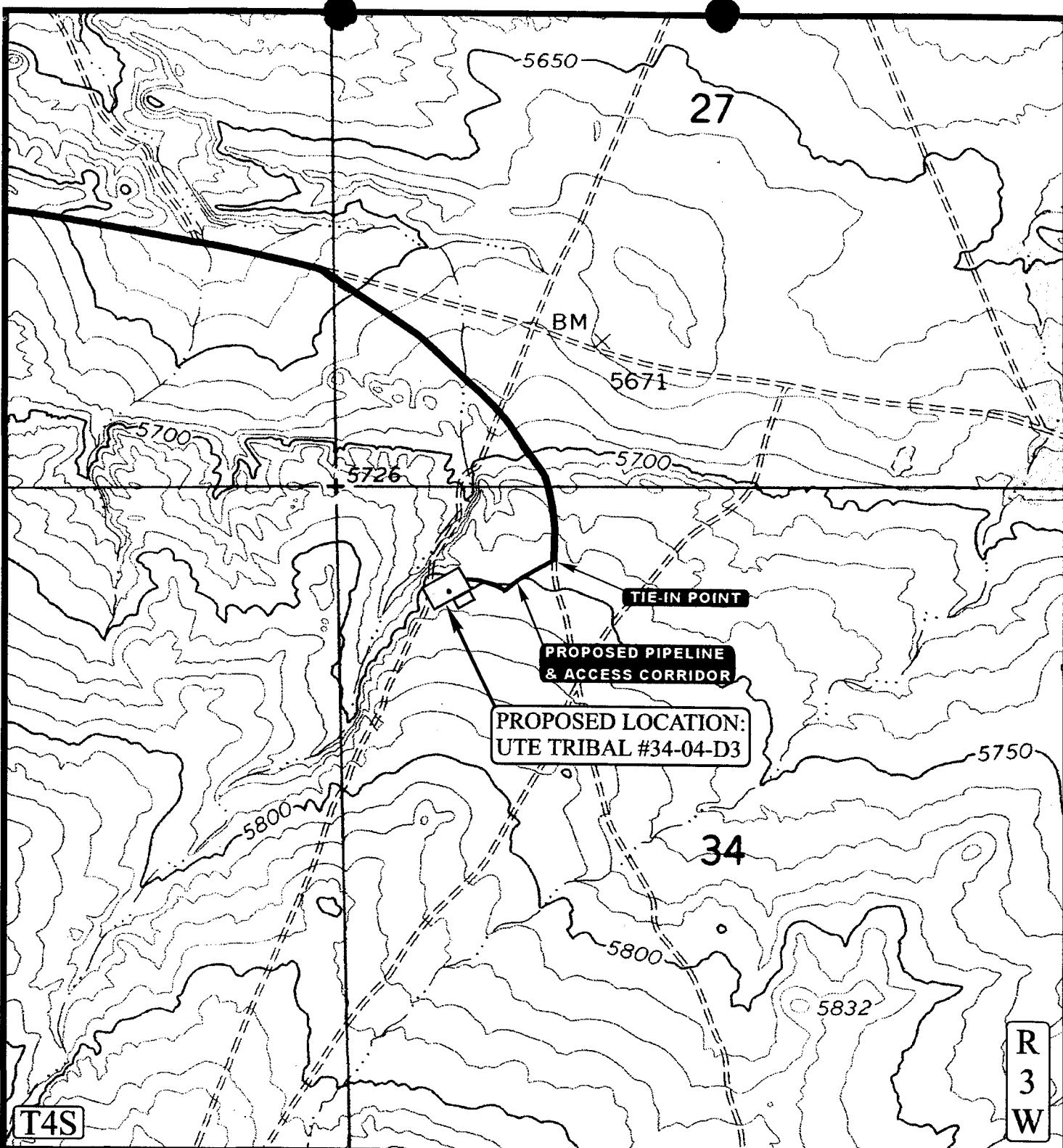


TOPOGRAPHIC  
 MAP

7 11 97  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 00-00-00





APPROXIMATE TOTAL CORRIDOR DISTANCE = 665' +/-

**LEGEND:**

- EXISTING PIPELINE
- - - PROPOSED PIPELINE
- PROPOSED ACCESS



**PETROGLYPH OPERATING CO., INC.**

UTE TRIBAL #34-04-D3  
SECTION 34, T4S, R3W, U.S.B.&M.  
752' FNL 762' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(801) 789-1017 \* FAX (801) 789-1813  
Email: uels@casilink.com

**TOPOGRAPHIC  
MAP**

**7 11 97**  
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.L.G. REVISED: 00-00-00

**D**  
TOPO

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

|  |  |  |
|--|--|--|
| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>14-20-H62-4737                    |
| b. TYPE OF WELL<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                     |
| 2. NAME OF OPERATOR<br>PETROGLYPH OPERATING CO., INC.  |  | 7. UNIT AGREEMENT NAME   |
| 3. ADDRESS AND TELEPHONE NO.<br>P.O. BOX 607, ROOSEVELT, UTAH 84066  |  | 8. FARMOR LEASE NAME, WELL NO.<br>UTE TRIBAL                             |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*<br>At surface 752' FNL & 762' FWL NW/NW<br>At proposed prod. zone  |  | 9. API WELL NO.<br>#34-04-D3   |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>14.8 MILES SOUTHWEST OF MYTON, UTAH   |  | 10. FIELD AND POOL, OR WILDCAT<br>ANTELOPE CREEK                         |
| 10. DISTANCE FROM PROPOSED*<br>LOCATION TO NEAREST<br>PROPERTY OR LEASE LINE, FT.<br>(Also to nearest drlg. unit line, if any) 752' ±  |  | 11. SEC., T., R., M., OR BLK.<br>AND SURVEY OR AREA<br>SEC. 34, T4S, R3W |
| 16. NO. OF ACRES IN LEASE<br>616   |  | 12. COUNTY OR PARISH<br>DUCHESTER  |
| 18. DISTANCE FROM PROPOSED LOCATION*<br>TO NEAREST WELL, DRILLING, COMPLETED,<br>OR APPLIED FOR, ON THIS LEASE, FT.<br>6238.5  |  | 13. STATE<br>UTAH  |
| 20. ROTARY OR CABLE TOOLS<br>ROTARY  |  |  |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>5748.5' GRADED GROUND  |  | 22. APPROX. DATE WORK WILL START*<br>OCTOBER 1997                        |

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT          |
|--------------|----------------------|-----------------|---------------|-----------------------------|
| 12 1/4"      | 8 5/8"               | 24.0#           | 250'          | 135 sx class "G" + 2% CaCl  |
| 7 7/8"       | 5 1/2"               | 15.5#           | 6238.5'       | + 1/4 #/sx celloflake.      |
|              |                      |                 |               | 50/50 POZMIX + 2% GEL + 10% |
|              |                      |                 |               | SALT TO 400' ABOVE ALL ZON  |
|              |                      |                 |               | OF INTEREST (+10% EXCESS).  |
|              |                      |                 |               | LIGHT CEMENT (11 PPG) +     |
|              |                      |                 |               | LCM TO 200' ABOVE OIL SHAL  |
|              |                      |                 |               | OR FRESH WATER INTERVALS    |
|              |                      |                 |               | (+5% EXCESS).               |

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, Utah

RECEIVED

OCT 09 1997

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

|  |                            |  |
|--|----------------------------|--|
| SIGNED <u>[Signature]</u>                    | TITLE AGENT FOR PETROGLYPH | DATE 10-3-97   |
| (This space for Federal or State office use) |                            |  |
| PERMIT NO. <u>NOTICE OF APPROVAL</u>         | APPROVAL DATE              | CONDITIONS OF APPROVAL, IF ANY<br>TO OPERATOR'S COPY |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:APPROVED BY [Signature] TITLE Assistant Field Manager  
Mineral Resources DATE OCT 24 1997  
\*See Instructions On Reverse SideKS/DW  
10-28-97  
WF



WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/14/97

API NO. ASSIGNED: 43-013-31960

WELL NAME: UTE TRIBAL 34-4-D3  
OPERATOR: PETROGLYPH OPERATING (N3800)

PROPOSED LOCATION:

NWNW 34 - T04S - R03W  
SURFACE: 0752-FNL-0762-FWL  
BOTTOM: 0752-FNL-0762-FWL  
DUCHESNE COUNTY  
UNDESIGNATED FIELD (002)

LEASE TYPE: IND  
LEASE NUMBER: 14-20-H62-4737

PROPOSED PRODUCING FORMATION: GRV

INSPECT LOCATION BY: / /

| TECH REVIEW | Initials | Date |
|-------------|----------|------|
| Engineering |          |      |
| Geology     |          |      |
| Surface     |          |      |

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Federal ☒ State ☐ Fee ☐  
(Number 4556)  
☒ Potash (Y/N)  
☒ Oil shale (Y/N)  
☒ Water permit  
(Number 43-10152)  
☐ RDCC Review (Y/N)  
(Date: )

LOCATION AND SITING:

☐ R649-2-3. Unit: \_\_\_\_\_  
☒ R649-3-2. General.  
☐ R649-3-3. Exception.  
☐ Drilling Unit.  
Board Cause no: \_\_\_\_\_  
Date: \_\_\_\_\_

COMMENTS:

STIPULATIONS:



COUNTY: DUCHESNE UAC: R649-2-3 & R649-3-3



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well  
☐ Oil Well ☐ Gas Well ☐ Other

**CONFIDENTIAL**

2. Name of Operator  
**Petroglyph Operating Company, Inc.**

3. Address and Telephone No.  
**P.O. Box 607, Roosevelt, UT 84066 (435) 722-2531**

4. Location of Well (Footage, Sec., T., R., or Survey Description)  
**752' FNL 762' FWL  
NWNW Sec. 34-T4S-R3W**

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires March 31, 1993

5. Lease Designation and Serial No.  
**14-20-H62-4737**

6. If Indian, Allottee or Tribe Name  
**Ute Indian Tribe**

7. If Unit or CA, Agreement Designation

8. Well Name and No.  
**Ute Tribal 34-04D3**

9. API Well No.  
**43-013-31960**

10. Field and Pool, or Exploratory Area  
**Antelope Creek**

11. County or Parish, State  
**Duchesne County, UT**

12. CHECK APPROPRIATE BOX(es) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent  
☐ Subsequent Report  
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment  
☐ Recompletion  
☐ Plugging Back  
☐ Casing Repair  
☐ Altering Casing  
☒ Other *APD extension*  
☐ Change of Plans  
☐ New Construction  
☐ Non-Routine Fracturing  
☐ Water Shut-Off  
☐ Conversion to Injection  
☐ Dispose Water

(Note: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

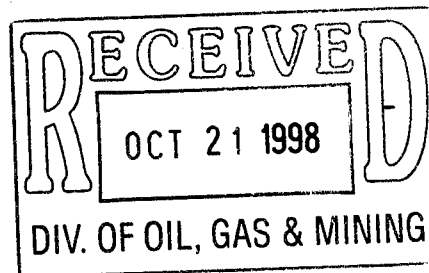
13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Petroglyph Operating Company, Inc. requests permission to extend the APD deadline on the above referenced well.

First page of APD is attached.

Approved by the  
Utah Division of  
Oil, Gas and Mining  
Date: *10/22/98*  
By: *[Signature]*

COPY SENT TO OPERATOR  
Date: *10-22-98*  
Initials: *CHD*



14. I hereby certify that the foregoing is true and correct

Signed *[Signature]*

Title **Operations Coordinator**

Date **9/29/98**

(This space for Federal or State official use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_

Date \_\_\_\_\_

Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter in its jurisdiction.

\*See Instruction on Reverse Side



State of Utah  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt  
Governor  
Ted Stewart  
Executive Director  
James W. Carter  
Division Director

1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801  
801-538-5340  
801-359-3940 (Fax)  
801-538-7223 (TDD)

October 27, 1997

Petroglyph Operating Company, Inc.  
P.O. Box 607  
Roosevelt, Utah 84066

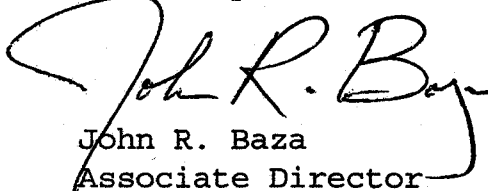
Re: Ute Tribal 34-04-D3 Well, 752' FNL, 762' FWL, NW NW,  
Sec. 34, T. 4 S., R. 3 W., Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-31960.

Sincerely,

  
John R. Baza  
Associate Director

lwp

Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

Operator: Petroglyph Operating Company, Inc.  
Well Name & Number: Ute Tribal 34-04-D3  
API Number: 43-013-31960  
Lease: 14-20-H62-4737  
Location: NW NW Sec. 34 T. 4 S. R. 3 W.

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for Permit to Drill.

2. Notification Requirements

Notify the Division within 24 hours following spudding the well or commencing drilling operations. Contact Jim Thompson at (801)538-5336.

Notify the Division prior to commencing operations to plug and abandon the well. Contact John R. Baza (801)538-5334.

3. Reporting Requirements

All required reports, forms and submittals shall be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR DEEPEN

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐OTHER ☐SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PETROGLYPH OPERATING CO., INC.

## 3. ADDRESS AND TELEPHONE NO.

P.O. BOX 607, ROOSEVELT, UTAH 84066

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface

752' FNL &amp; 762' FWL NW/NW

At proposed prod. zone

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

14.8 MILES SOUTHWEST OF MYTON, UTAH

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drig. unit line, if any)

752' ±

## 16. NO. OF ACRES IN LEASE

616

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

80

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6238.5

## 20. ROTARY OR CABLE TOOLS

ROTARY

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5748.5' GRADED GROUND

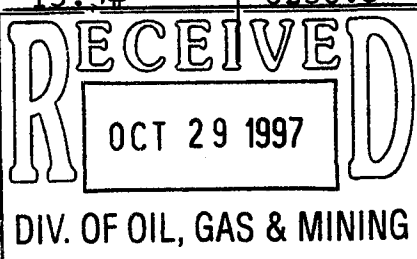
## 22. APPROX. DATE WORK WILL START\*

OCTOBER 1997

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | GRADE SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT  |
|--------------|----------------------|-----------------|---------------|---|
| 12 1/4"      | 8 5/8"               | 24.0#           | 250'          | 135 sx class "G" + 2% CaCl <sub>2</sub>   |
| 7 7/8"       | 5 1/2"               | 15.5#           | 6238.5'       | + 1/4 #/sx celloflake.  |
|              |                      |                 |               | 50/50 POZMIX + 2% GEL + 10%<br>SALT TO 400' ABOVE ALL ZONE<br>OF INTEREST (+10% EXCESS).<br>LIGHT CEMENT (11 PPG) +<br>LCM TO 200' ABOVE OIL SHALE<br>OR FRESH WATER INTERVALS<br>(+5% EXCESS). |

PETROGLYPH OPERATING COMPANY, INC. WILL BE THE DESIGNATED  
OPERATOR OF THE SUBJECT WELL UNDER BOND #4556.pc: Utah Division of Oil, Gas, and Mining  
Bureau of Indian Affairs, Fort Duchesne, UtahRECEIVED  
OCT 09 1997

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE AGENT FOR PETROGLYPH

DATE

10-3-97

(This space for Federal or State office use)

NOTICE OF APPROVAL

PERMIT NO.

APPROVAL DATE

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPYApplication approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

TITLE

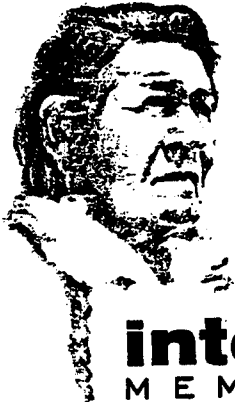
Assistant Field Manager  
Mineral Resources

DATE

OCT 24 1997

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations or to any matter within its jurisdiction.



RECEIVED

SEP 10 1997

UINTAH AND OURAY AGENCY

P.O. Box 190  
Fort Duchesne, Utah 84026**interoffice**  
MEMORANDUM

to: Howard Cleavinger, BLM-District Office  
from: Joyleen W. Grant *JW*  
subject: Petroglyph Operating Company  
date: September 4, 1997

Locations: Township 5 South, Range 3 West, USB&amp;M

|                      |                      |
|----------------------|----------------------|
| Ute Tribal #33-07 D3 | Ute Tribal #33-16 D3 |
| Ute Tribal #33-08 D3 | Ute Tribal #34-03 D3 |
| Ute Tribal #33-09 D3 | Ute Tribal #34-04 D3 |
| Ute Tribal #33-10 D3 | Ute Tribal #34-05 D3 |
| Ute Tribal #33-11 D3 | Ute Tribal #34-06 D3 |
| Ute Tribal #33-13 D3 | Ute Tribal #34-11 D3 |
| Ute Tribal #33-14 D3 | Ute Tribal #34-12 D3 |
| Ute Tribal #33-15 D3 | Ute Tribal #34-13 D3 |

The Bureau of Indian Affairs, and the Ute Indian Tribe completed the onsite Environmental Assessments on the above wells. These wells are located on fee surface and tribal minerals. These EA's address the environmental impacts of the projects and recommend the approval of the Application for Permit to Drill, and the approval of the corridor right-of-ways.

An independent archaeologist conducted block cultural surveys for Sections 34 & 33. The cultural resources will not be impacted by construction activities provided it is maintained within the presently staked areas.

During July 28, 1997 an on-site inspection was conducted with the following persons in attendance: Ed Trotter, agent for Petroglyph Operating Co.; Greg Darlington of The Bureau Of Land Management, Vernal District; Dale Hanberg of the Bureau of Indian Affairs; Lonnie Nephi, Tribal Technician; and Steve Wall of Petroglyph Operating Co.

cc: Bureau of Indians Affairs  
Fort Duchesne, Utah

cc: UIT Energy & Minerals  
Ed Trotter, Agent for Petroglyph

RECEIVED  
OCT 09 1997

**SITE SPECIFIC  
ENVIRONMENTAL ASSESSMENT**

**1.0 PROPOSED ACTION**

Petroglyph Operating Co., Inc. is proposing to drill oil well #34-04-D3, and construct pipelines, and an access road on fee property having mineral rights owned by the Ute Indian Tribe. This environmental assessment is tier off from the Duchesne River Area Environmental Assessment No.3 prepared by Minerals Management Service dated April 1982.

**2.0 ALTERNATIVE ACTIONS**

- A. ALTERNATIVE CONSIDERED: The proposed action is the preferred alternative.
- B. NO ACTION: Under the no action alternative the proposed action would not be implemented.
- C. OTHER: NA

**3.0 PERMITTEE/LOCATION**

- A. Permittee- Petroglyph Operating Co., Inc.
- B. Date 7-28-97
- C. Well number- 34-04-D3
- D. Right-of-way- Access road & pipeline R\W approx. 665 feet.
- E. Site location- NWNW, Section 34, T4S, R3W, USB&M.

**4.0 SITE SPECIFIC SURVEY**

**A. SITE DESCRIPTION**

- 1. Elevation (feet) 5752
- 2. Annual precipitation (inches)- 10-12
- 3. Topography- rolling hills
- 4. Soil- The soil texture is (0 to 6") loam

**B. VEGETATION**

- 1. Habitat type is upland shrub.
- 2. Percent Ground Cover- estimated to be 30%.
- 3. Vegetation consists of approximately 35% grasses, 60% shrubs, 5% forbs. The main variety of grasses are squirrel tail, Indian ricegrass, poa, needle & thread, galleta, and blue grama. Forbs are astragalus, mustard, lambs quarter, globemallow, buck wheat, flox, daisy, Indian paint brush, & annuals. Shrubs consist of black sagebrush, fring sage, bud sage, prickly pear, winterfat, shadscale, snakeweed, greasewood, rabbit



brush, spiny horsebrush.

4. Observed Threatened & Endangered species: None.

5. Potential For Threatened & Endangered species: Slight

7. Observed Noxious Weeds: None

8. AFFECTED ENVIRONMENTAL

1. There are no surface damages as a result of the initial survey.

4.1 WILDLIFE

A. POTENTIAL SITE UTILIZATION

1. Big Game-The area is used throughout the year by mule deer, elk, and antelope. (elk & mule deer use this area most during winter months.)

2. Small Game-The area is used by cottontail rabbit.

3. Raptor- Various species of raptors use this area for habitat. Raptors which are observed using the area are Golden eagles, Redtail hawk, & Kestrel. Ferruginous hawk hunt in the area and there is an active nest located approximately 4.0 miles south of the site in Section 20, T5S, R3W, USB&M.

5. Non-Game Wildlife- Animal species which have been observed using this area are black tail jack rabbit, coyote, fox, badger, and various species of reptiles, and song birds.

6. Threatened & Endangered Species: No T&E species are reported using the area of this project.

4.2 PRESENT SITE USE

A. USAGE

|                    | <u>acres</u> |
|--------------------|--------------|
| Rangeland          | 2.36         |
| Irrigable land     | 0            |
| Woodland           | 0            |
| Non-Irrigable land | 2.36         |
| Commercial timber  | 0            |
| Floodplain         | 0            |
| Wetland            | 0            |
| Riparian           | 0            |
| Other:             | 0            |

4.3 CULTURAL RESOURCES

## A. CULTURAL SURVEY

Cultural Resource Surveys were performed by James A. Truesdale, an Independent Archaeologist. No archaeological sites were found within the project area.

## 5.0 ENVIRONMENTAL IMPACTS

### A. SURFACE ALTERATIONS

|                          | <u>acres</u> |
|--------------------------|--------------|
| 1. Access road           | 0.00         |
| 2. Well site             | 1.43         |
| 3. Pipeline right-of-way | 0.00         |
| 4. Corridor right-of-way | 0.92         |
| 5. Total area disturbed  | 2.36         |

### B. VEGETATION/LANDSCAPE

1. Production loss (AUM's)/year: 0.16
2. Permanent scar on landscape: Yes x No
3. Potential impacts to Threatened & Endangered species:  
Yes No X

### C. SOIL/RANGE/WATERSHED

There will be an increase in soil erosion from wind and water. There will not be any point source of water pollution.

There are no wetlands or riparian areas which will be affected by this project.

The area is presently used as rangeland. This project will reduce livestock grazing by approximately 0.16 AUM/year. The land surface is in fee ownership. It is grazed by sheep and cattle. Dust from wellsite construction and travel along access roads may cause dust to settle on vegetation. The dust collecting on plant surfaces may adversely affect the grazing of the area adjacent to the access roads by livestock and wildlife.

Because of additional oilfield activity there will be an increase in traffic using the area. The increased traffic may disturb livestock or result in larger numbers of livestock injury or death from vehicle accidents.

The area is not used as irrigated cropland and a water right has not been designated for the area.

Reserve pits will be constructed on each wellsite. These pits contain bentonite clay, barite, cellulose, well cuttings, by-products from hydrocarbons, and other additives which have been approved by the Environmental

Protection Agency for drilling oil & gas wells. Within 90 days after the completion of the well the reserve pits are normally filled in and contoured to blend into the approximate elevation of the soil surface.

Small disposal pits may also be used after the well starts into production. These pits may be used to dispose of up to 5.0 barrels of produced water per day. Produced water contains high concentrations of salt, hydrocarbons, etc. Also trash and other foreign material may be disposed of in these pits.

Construction of the wellsite and access roads and pipelines often require deep cuts and fills, and often large amounts of rocks are exposed to the soil surface. When the wellsite is re-contoured and rehabilitated and revegetated, there will normally be a scar left on the soil surface which can may be visible to people using the area.

#### D. WILDLIFE/THREATENED & ENDANGERED SPECIES

There will be a small reduction of wildlife habitat and grazing for livestock. There will also be an increase in wildlife disturbance and poaching resulting from the additional traffic and people using the area.

There are no known impacts to Threatened or Endangered species but is important habitat for the Ferruginous hawk. The area is important winter range for big game.

Ferruginous Hawks use this area for nesting and hunting. There is an nest in Section 20.

#### 6.0 MITIGATION STIPULATIONS

Because the area is owned by a private individual the company will comply with the private land owners request on all mitigative measures.

#### 7.0 UNAVOIDABLE ADVERSE IMPACTS

##### A. SURFACE ALTERATIONS

None of the adverse impacts listed in 5.0 above can be avoided in a practical manner except those which are mitigated in item 6.0 above and those specified in BLM's 13 point surface use plan.

##### B. RELATIONSHIP BETWEEN SHORT-TERM USE OF THE ENVIRONMENT VS LONG TERM PRODUCTIVITY.

1. Short Term: (Estimated 20 years) A total loss of production on the land and the associated

environmental impacts will continue to influence the surrounding area for the productive life of the well.

2. Long Term: Standard policies provide for rehabilitation of wellsite and rights-of-ways. After the land is rehabilitated, it is not expected to return to its original productive capability. Normally, there will be a permanent scar left on the landscape.

C. IRREVERSIBLE AND IRRETRIEVABLE COMMITMENT

Oil and Gas are non-renewable resources, once they have been removed they can never be replaced.

8.0 CUMULATIVE IMPACTS

A. FULL DEVELOPMENT

Each additional well drilled for development increases the soil erosion potential, reduces wildlife habitat and grazing, increases potential soil and geologic pollution resulting from salt loading, reduces the soil's potential to recover, and increases the potential of water pollution from produced waters and hydro-carbons. Therefore, strict conformance with the mitigation measures and recommendations in this document is emphasized to minimize the adverse environmental impacts.

9.0 NEPA COMPLIANCE

A. RESEARCH/DOCUMENTATION

Based on available information, 8-20-97, the proposed location in the following areas of environmental impacts has been cleared:

|              |     |               |    |  |
|--------------|-----|---------------|----|--|
| <u>  X  </u> | Yes | <u>      </u> | No | Listed Threatened & Endangered species |
| <u>  X  </u> | Yes | <u>      </u> | No | Critical wildlife habitat              |
| <u>  X  </u> | Yes | <u>      </u> | No | Historical and cultural resources      |
| <u>  X  </u> | Yes | <u>      </u> | No | Floodplain                             |
| <u>  X  </u> | Yes | <u>      </u> | No | Wetlands                               |

10.0 REMARKS

A. SURFACE PROTECTION/REHABILITATION

All essential surface protection and rehabilitation requirements are specified above.

## 11.0 RECOMMENDATIONS

### A. APPROVAL/DISAPPROVAL

We recommend approval of the proposed action as outlined in item 1.0 above.

8-21-97  
Date

Dale D. Hanberg  
Representative - BIA Land  
Operations, Uintah and Ouray  
Agency

## 12.0 DECLARATION

### A. APPROVAL

It has been determined that the proposed action is not a federal action significantly affecting the quality of the environment as it would require the preparation of an environmental impact statement in accordance with Section 102 (2) (c) of the National Environmental Policy Act of 1969 (42 USC 4331) (2) (C).

8/21/97  
Date

[Signature]  
Superintendent,  
Uintah and Ouray Agency

## 14.0 CONSULTATION

### A. REPRESENTATIVES/ORGANIZATION

Dale Hanberg- BIA  
Ed Trotter-Petroglyphs  
Lonnie Nephi-UTEM  
Greg Darlington-BLM

B:\EAPetM40.D3

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 34-04-D3

API Number: 43-013-31960

Lease Number: 14-20-H62-4737

Location: NWNW Sec. 34 T.4S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

## SURFACE CONDITIONS OF APPROVAL

The Bureau of Indian Affairs Site Specific Environmental Analysis states that:

"The area is owned by a private individual. Petroglyph will comply with the private landowner's request on all mitigative measures."

(Orvin J. and Delphia N. Moon)---Wellpad and the new access road

The following general stipulation also should have been included in the APD, but wasn't:

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Petroglyph Operating Company Inc.

Well Name & Number: Ute Tribal 34-04-D3

API Number: 43-013-31960

Lease Number: 14-20-H62-4737

Location: NWNW Sec. 34 T.4S R. 3W

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.



## CONDITIONS OF APPROVAL FOR NOTICE TO DRILL

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

### A. DRILLING PROGRAM

#### 1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered

Report ALL water shows and water-bearing sands to Tim Ingwell of this office **prior to setting the next casing string or requesting plugging orders**. Faxed copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, submit samples to this office along with any water analyses conducted.

All usable water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

#### 2. Pressure Control Equipment

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc., for a **2M** system and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to a BLM representative upon request.

If an air compressor is on location and is being utilized to provide air for the drilling medium while drilling, the special drilling requirements in Onshore Oil and Gas Order No. 2, regarding air or gas drilling shall be adhered to. If a mist system is being utilized then the requirement for a deduster shall be waived.

#### 3. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on the bottom three joints, with a minimum of one centralizer per joint.

As a minimum, the usable water shall be isolated and/or protected by having a cement top for the production casing at least 200 ft. above the base of the usable water zone, identified at 263 ft. or by setting surface casing to 300 ft. and having a cement top for the production casing at least 200 ft. above shallowest potential productive zone. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

4. Mud Program and Circulating Medium

Hazardous substances specifically listed by the EPA as a hazardous waste or demonstrating a characteristic of a hazardous waste will not be used in drilling, testing, or completion operations.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

5. Coring, Logging and Testing Program

Daily drilling and completion progress reports shall be submitted to this office on a weekly basis.

All Drill Stem tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the AO. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the AO.

A cement bond log (CBL) will be run from the production casing shoe to the top of the cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analyses, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. Samples (cuttings, fluids, and/or gases) will be submitted when requested by the AO.

6. Notifications of Operations

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Operator shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

The date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than five (5) days following the date on which the well is placed on production.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the Authorized Officer. Should gas be vented or flared without approval beyond the authorized test period, the operator may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted and the operator shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

A schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 shall be submitted to the appropriate District Office within thirty (30) days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

No well abandonment operations will be commenced without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within thirty (30) days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All off-lease storage, off-lease measurement, or commingling onlease or off-lease will have prior written approval from the AO.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries and tested for meter accuracy at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with Onshore Oil & Gas Order No. 4 for liquid hydrocarbons and Onshore Oil & Gas Order No. 5 for natural gas measurement.

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

There will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or sundry notice, Form 3160-5, or orally to be followed by a letter or sundry notice, of the date on which such production has begun or resumed."

If you fail to comply with this requirement in the manner and time allowed, you shall be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management Act of 1982 and the implementing regulations at Title 43 CFR 3162.4-1(b)(5)(ii).

APD approval is valid for a period of one (1) year from the signature date. An extension period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hours approvals are necessary, please contact one of the following individuals:

Ed Forsman (801) 789-7077  
Petroleum Engineer

Wayne P. Bankert (801) 789-4170  
Petroleum Engineer

Jerry Kenczka (801) 781-1190  
Petroleum Engineer

BLM FAX Machine (801) 781-4410

## **EPA'S LIST OF NONEXEMPT EXPLORATION AND PRODUCTION WASTES**

While the following wastes are nonexempt, they are not necessarily hazardous.

Unused fracturing fluids or acids

Gas plant cooling tower cleaning wastes

Painting wastes

Oil and gas service company wastes, such as empty drums, drum rinsate, vacuum truck rinsate, sandblast media, painting wastes, spent solvents, spilled chemicals, and waste acids

Vacuum truck and drum rinsate from trucks and drums, transporting or containing nonexempt waste

Refinery wastes

Liquid and solid wastes generated by crude oil and tank bottom reclaimers

Used equipment lubrication oils

Waste compressor oil, filters, and blowdown

Used hydraulic fluids

Waste solvents

Waste in transportation pipeline-related pits

Caustic or acid cleaners

Boiler cleaning wastes

Boiler refractory bricks

Incinerator ash

Laboratory wastes

Sanitary wastes

Pesticide wastes

Radioactive tracer wastes

Drums, insulation and miscellaneous solids.

## **SURFACE CONDITIONS OF APPROVAL**

The Bureau of Indian Affairs Site Specific Environmental Analysis states that:

"The area is owned by a private individual. Petroglyph will comply with the private landowner's request on all mitigative measures."

(Orvin J. and Delphia N. Moon)---Wellpad and the new access road

The following general stipulation also should have been included in the APD, but wasn't:

Noxious weeds will be controlled on the well site and rights-of-way. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Vernal Field Office

170 South 500 East

Vernal, Utah 84078-2799

<http://www.blm.gov/utah/vernal>

Phone: (435) 781-4400

Fax: (435) 781-4410

IN REPLY REFER TO:

3160

UT08300

November 8, 1999

Petroglyph Operating Co., Inc.  
P. O. Box 607  
Roosevelt, Utah 84066

Re: Notification of Expiration  
Well No. Ute Tribal 34-04D3  
NWNW, Section 34, T4S, R3W  
Lease No. 14-20-H62-4737  
Duchesne County, Utah

Gentlemen:

43-013-31960

The Application for Permit to Drill the above-referenced well was approved on October 24, 1997. Petroglyph Operating Company, Inc. requested an extension of the original APD approval for an additional year. The request was reviewed and the extension approved until October 24, 1999. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you the approval of the referenced application has expired. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

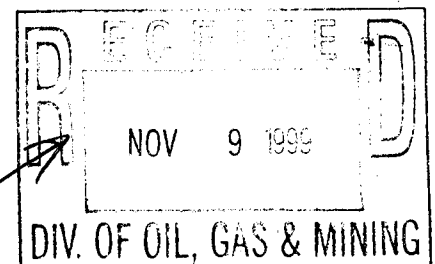
This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Margie Herrmann  
Legal Instruments Examiner

cc: State Div. OG&M

DOGm  
LA  
DATE





|   |                                      |
|---|--------------------------------------|
| Humpback 8-25-8-17<br>25-8S-17E<br>43-047-32767                         | letter being done                    |
| Petroglyph Operating<br>Ute Tribal 3-7<br>3-5S-3W<br>43-013-31788       | expired 2/16/99                      |
| Petroglyph Operating<br>Ute Tribal 16-5<br>16-5S-3W<br>43-013-31790     | expires 3/10/99                      |
| Petroglyph Operating<br>Ute Tribal 30-4<br>30-5S-3W<br>43-013-31906     | expires 8/19/99                      |
| Petroglyph Operating<br>Ute Tribal 33-7-D3<br>33-4S-3W<br>43-013-31955  | expires 10/24/99                     |
| Petroglyph Operating<br>Ute Tribal 34-3-D3<br>34-4S-3W<br>43-013-31959  | expires 10/24/99                     |
| Petroglyph Operating<br>Ute Tribal 34-4-D3<br>34-4S-3W<br>43-013-31960  | expires 10/24/99                     |
| Petroglyph Operating<br>Ute Tribal 34-6-D3<br>34-4S-3W<br>43-013-31961  | expires 10/21/99                     |
| Petroglyph Operating<br>Ute Tribal 34-11-D3<br>34-4S-3W<br>43-013-31962 | expires 10/21/99                     |
| Petroglyph Operating<br>Ute Tribal 34-13-D3<br>34-4S-3W<br>43-013-31963 | expires 10/21/99                     |
| Petroglyph Operating<br>Ute Tribal 30-3<br>30-5S-3W<br>43-013-31969     | expires 11/2/99                      |
| Petroglyph Operating<br>Ute Tribal 7-2                                  | expired 2/10/99<br>letter being done |

APD Approval  
Extensions

per  
Margie Hermann  
- BLM Vernal -  
email 3/4/99

Well File